

Republic of Yemen
21 September University Of Medical & Applied Sciences



FACULTY OF DENTISTRY
Bachelor of Dental Technology (B.D.T)
Program Specification

Preparation Committee:

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2. Prof. Abdulwahab Al-kholani
3. Assoc. Prof. Muneer Alwesabi
4. Assis. Prof. Jamil Mujlli
5. Assis. Prof. Yaser A. S. Alrubaidi
6. Dr. Yaser Basheer.

Program Coordinator:

Prof. Abdulwahab Al-kholani

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1. Program Identification and General Information:

1	Scientific name of the program:	Bachelor of Dental Technology (B.D.T)
2	Total credit hours required to award the degree	162 hours
3	Number of years needed for completion of the program:	Four Years
4	The body responsible for granting the degree:	21 September University
5	The body responsible for the program:	Faculty of Dentistry
6	Award granted on completion of the program:	Bachelor of Dental Technology (B.D.T)
7	Study system:	Integrated (Semester)
8	Study Language of the Program:	English Language
9	Entry requirements:	Secondary School (Scientific Section) & Acceptance Exam
10	Departments participating in the program:	Many departments participated 5 departments (Annex 6)
11	Starting year of the program:	2024/2025
12	Study methods in the program:	Full time
13	Location of Delivery:	University campus
14	The program resources:	Student fees
15	Minimum grade requirements:	As per regulations of the Ministry of Higher Education and Scientific Research
16	Other admission requirements:	According to the university rules and regulations.
17	Date of current development of the program:	February. 2024
18	Prepared by:	1- Prof. Muta'a Abuarij. 2- Prof. Abdulwahab Al-kholani 3- Assoc. Prof. Muneer Alwesabi 4- Assis. Prof. Jamil Mujli 5- Assis. Prof. Yaser A. S. Alrubaidi 6- Dr. Yaser Basheer.
19	Program coordinator:	Prof. Abdulwahab Al-kholani

2. Introduction:-

This Program for The Faculty of Dentistry at 21 September University has adopted the Semester system as a teaching system through which it will achieve its goal of graduating dental technician with high academic qualifications and skills to serve the community and alleviate its suffering.

It is offered for full-time four academic years.

The program aims to equip competent dental technician with strong theoretical and practical knowledge to significantly contribute as a member of the dental health care for planning, designing and fabrication of prosthodontics that involves construction of be taught in the faculty of dentistry. The dental technology training will be carried out in the prosthodontics, the basic biomedical sciences within this program will be in the Faculty of dentistry and dental Laboratory. The students enrolled in dental technology program will be integrated with undergraduate dental students for few course elements to ensure effective teamwork throughout their learning duration and future endeavors.

Promising Jobs:

The graduated doctor will able to work in different filed as: -

- 1- Public and private hospitals.
- 2- Private clinics.
- 3- Academic fields.
- 4- Health organizations

3. University Vision, Mission, Values, Objectives, and Goals:

3.1-University vision:

A contemporary University with National Responsibility and a Faith Identity.

3.2-University mission:

Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.

3.3-University Core values:

- 1- Leadership and influence

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- 2- Excellence
- 3- Creativity
- 4- Teamwork

3.5-Strategic goals:

1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.
2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.
3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.
4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.
5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

4. Faculty Vision, Mission, Values, and Objectives:

4.1-Vision:

A contemporary faculty of dentistry with National Responsibility and a Faith Identity.

4.2-Mission:

Share the Leading of the transformation in delivery of dental care with high quality by setting a standard of excellence in education of medical and dentistry research with dental technology in a way that meets the needs of Yemeni society, its specificity and regional influence.

4.3-Values:

1. Professional
2. Continuous Education.
3. Appreciation of Science and Scientists.
4. Transparency and Accountability.
5. Team Work.

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4.4-Faculty Objectives(Strategic):

1. Ensuring the application of quality standards and setting standards of excellence in dentistry sciences, dental technology, scientific research and community service.
2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.
3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of “brain drain” in a way that promotes and ensures the creation of dentists, dental technicians, specialists, consultants, thinkers, businessmen and good citizens with high efficiency.
4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally in dentistry and dental technology.
5. Enhancing the university’s position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional dentistry practices to benefit from them locally and regionally.

5. Program Mission and Objectives:

5.1- Program Mission:

To graduate dental technician equipped with knowledge, skills, and competencies to practice the profession to contribute significantly to scientific research and be committed to community services, thus improving biocompatible prosthodontics, and quality of life among the Yemen society and regional.

5.2-Program Objectives- :

This program aims to:

1. Provide the students with a comprehensive understanding of dental technology practices in terms of theoretical knowledge, practice, and hands-skills used for the construction of comprehensive prosthodontics as well as orthodontic and maxillofacial appliances.
2. Ensure the development of practical competencies for constructing dental prosthesis and appliances in collaboration with a real-life working environment Develop the students diagnostic and therapeutic skills in solving various prosthodontics problems.
3. Develop students critical thinking in dental technology that influences the creativity and the ability to deal with versatile dental technology aspects.

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4. Conduct dental technology-based research activities for providing inspirational teaching and contributing to the development of dental technology sciences.
5. Develop transferable skills applied to the working environment such as independent learning, problem-solving, assessment planning, time management, and dental laboratory management.
6. Enhancing the principles of professional, ethical and national responsibility among students.
7. Establishing communication channels and enhancing academic cooperation with the scientific departments in the corresponding colleges.

6. Program Standards & Benchmarks:

6.1- Program Standards: -

A. Academic Standards:

- 1- National Academic Reference Standards (NARS) for Undergraduate Dentistry Education Programs (V.2018).
- 2- National Accreditation Standards for Faculties of Medicine in Yemen (V.2022) [Compliant with the BASIC MEDICAL EDUCATION WFME GLOBAL STANDARDS FOR QUALITY IMPROVEMENT The 2020 Revision]

B. Strategies :-

- 1- University Strategy .
- 2- Faculty Strategy .

C. Rules and Regulation :-

- 1- Higher Education rules
- 2- Student affairs regulation.

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6.2- Program Benchmarks:

- 1- Sana'a University. Dentistry College -Yemen

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- [https:// su.edu.ye/](https://su.edu.ye/)
- 2- Middle Technical University. Dental Technology department- Iraq
<https://hmt.mtu.edu.iq/stu-info/dent-dep/>
- 3- King Saud University
<https://cams.ksu.edu.sa/ar/dental-health/dental-technology>
- 4- Jordan University of Science and Technology Department of Applied Dental Science
<https://www.just.edu.jo/>
- 5- Otago University. Faculty of Health sciences - New Zealand
www.otago.ac.nz/healthsciences
- 6- Griffith University. School of Medicine and Dentistry- Australia
<https://www.griffith.edu.au/>

7. Graduate Attributes:

Upon successful completion of an undergraduate Dentistry program, graduates will be able to:

1. Dental technology provider: providing high-quality prosthesis , effectively and safely within their defined scope and limits of their expertise and within the context of dental team work.
2. Professional: Adhering to ethical, professional, and legal standards, demonstrating a commitment to dental team-work and society, and to their wellbeing and lifelong personal and professional development.
3. Scholar: Using Dental technology knowledge and evidence base research to meet the needs of patients, healthcare system, and society.
4. Smile creation: design and execute prosthodontics with quality control standard.
5. Health Advocate: contributing to prevent illness and promote the health and well-being of their patients, and society and controlling the infection with radiation protection.
6. Communicator & Collaborator: Communicate effectively with the dental team-work and the society, and collaborating inter professionally, working as a team member and a leader.
7. Apply critical thinking and evidence-based problem solving when providing the service.

8. Program Intended Learning Outcomes (PILOs):

A. KNOWLEDGE AND UNDERSTANDING

Upon successful completion of an undergraduate Dental technology program, the graduates will be able to:

- A1. Describe the scientific basis of dental technology and the relevant technical, biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
- A2. Explain the structure and function of the human body in health related to the practice of Dental Technology.
- A3. Identify the rules and ethics governing dental Technology practices.
- A4. Describe the different technical, laboratory and special investigatory procedures practiced in dental Technology.
- A5. Show an understanding of the psychological, cultural and social factors that have implications on dental Technology.
- A6. Explain the digital technology in dental Technology & Explain the principles of evidence-based dental Technology and its relation to scientific research.

B. COGNITIVE/INTELLECTUAL SKILLS

Upon successful completion of an undergraduate Dental technology program, the graduates will be able to:

- B1. Incorporate theoretical basic technical ,biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of dental Technology.
- B2. Evaluation of critical thinking and evidence-based problem solving when providing service.
- B3. Prioritize patient's treatment needs and formulate an appropriate treatment plan.
- B4. Construct preventive strategies at different levels according to the targeted individual and community needs.
- B5. Select suitable biocompatible dental materials and choose the best quality material to be used in a specific dental Technology situation.
- B6. Analyze and use the Artificial intelligence (AI) and digital technology in dentistry to solve the problems of dental Technology and recreate the reasonable solutions.

8. Program Intended Learning Outcomes (PILOs):

C. PRACTICAL AND PROFESSIONAL SKILLS:

Upon successful completion of an undergraduate Dental technology program, the graduates will be able to:

- C1. Use the recent advance in dental technology to produce high and precise prosthodontics.
- C2. Manage the dental technology equipment with high quality standard of safety.
- C3. Use infection control protocol and radiation protection regulation according to international standards.
- C4. Apply comprehensive dental Technology practices & Apply preventive measures for different age groups bearing in mind the different needs of young children, adolescents, adults, special needs and the ageing population/elderly.
- C5. Ability to assess the risk of medical emergencies and be competent in their management within the dental technology practice setup.
- C6. Practicing Artificial intelligence (AI) and digital technology in dentistry.

D. GENERAL / TRANSFERABLE SKILLS

Upon successful completion of an undergraduate Dental technology program, the graduates will be able to:

- D1. Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice.
- D2. Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means ethically.
- D3. Work individually and in team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D4. Use advanced information and communication technologies to enrich and diversify professional experience.
- D5. Exhibit leadership and Management skills to set treatment priorities and work to prescribed time limits.
- D6. Maintain full and accurate clinical records (manual and electronic).
- D7. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice.

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Annex-7, Alignment of Program Intended Learning Outcomes (PILOs) to Program Objectives (POs)

Annex- 8, Mapping of Program Objectives to the Faculty Mission

Annex- 9, Survey of PILOs for Similar Accredited Programs at National and International universities

9. Teaching and Learning Strategies:

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- Interactive lectures
- Seminars
- Practical session
- Training
- Discussion
- Self-learning
- Presentation
- Case study (CBL)
- Problem Based Learning (PBL)

Teaching Strategy	Description
Interactive lectures	These are interactive lectures weekly conducted in the class and supported with variety of teaching formats including, lectures and multimedia presentations, use of whiteboard to solve examples and illustrating different tasks and problems introduced by the presentation, and class discussions, in which concepts, approaches, and case studies are presented, explored, and shown students what they need to know.
Seminars	Discussion of specific topic by group of students under the observation of the lecturer.
Practical session	In highly equipped labs the student will trained by practicing certain topic.
Training	This training preformed in the hospital by such teaching strategy the students improve their clinical skills.
Discussion	It is interactive measure by which the lecturer explores the level of understanding the subject among students
Self-learning	Improving the knowledge by the student oneself without assistants .
Office hours	By which the lecturer discusses and answer for students' questions.
Presentation	An activity by which the student describes, explain something Infront of group of students.
Case studies (CBL)	Study the clinical cases in depth, training the details of history taking, examination, analysis the gathering data and obtaining diagnosis.
Problem Based Learning (PBL)	A detailed analysis is made of some specific, usually compelling event or series of related events so that learners will better understand its nature and what might be done about it.

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10. Assessment Methods:

- Written exam (mid and final terms and quizzes),
- Final practical exam
- OSCE & OSPE
- Final oral exam
- Research
- Homework

Assessment Strategy	Description
Written exam (mid and final terms and quizzes)	Mid-term test is conducted in the 8 th week and final exam is conducted at the end of each course. Both tests are closed book, closed notes. quizzes are related to past as well as topics discussed in the period. This helps students develop self-confidence, readiness, and accuracy in major exams.
Final practical exam	Final practical exam is carried on the end of each course in order to examine the student's practical skills.
OSCE & OSPE	OSCE/OSPE stands for "Objective Structured Clinical Examination." OSCEs/OSPEs are very helpful in medical education because they allow a student to practice and demonstrate clinical skills in a standardized medical scenario.
Final oral exam	It's part of the final assessment of the student knowledge by which the examiner gives the question in spoken form.
Research project	At the end of study years, the students have to work in research project in order to achieve bachelor degree.
Homework	Individual assessment

11. Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:

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PILOs	Teaching Strategy	Assessment Methods
Knowledge and Understanding A1, A2, A3, A4, A5, A6	- Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Office Hours - Self learning	-Quizzes - Written Exam -Final Oral Exam
Intellectual Skills B1, B2, B3, B4, B5, B6	-Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Self Learning - PBL	-Written Exam -Final Oral Exam -Final Practical Exam
Professional & practical skills C1, C2, C3, C4, C5, C6	-Practical session . -Training -Case Study (CBL) - PBL	- Final Practical Exam - OSCE -OSPE
General & Transferable Skills D1, D2, D3, D4, D5, D6, D7	- Seminars - Discussion - Case Study (CBL) - Self Learning - Presentation - PBL	- Homework - Research - Oral Discussion

12. Project Assessment:

Each project will be assessed as follows:

Item	Marks Distribution
Research Project	70
Discussion	30
Total	100

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13.Training Course Assessment:

The training course will be assessed through:

- Log Book
- Case discussion
- Final Practical Exam
- OSCE

14.Intended Learning Outcomes Mapping:

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15.Program Structure:

No	Requirements		No. of Courses	Credit Hours	Rational Weight %
1	University Requirements	Compulsory	8	17	10.5%
		Elective	-	-	
2	Basic Requirements	Compulsory	-	-	
		Elective	-	-	
3	Faculty Requirements	Compulsory	9	22	13.6%
		Elective	-	-	
4	Department Requirements	Compulsory			
		Elective			
5	Program Requirements	Compulsory	42	123	75.9%
		Elective	-	-	
	Total:		59	162	100%

15.1. University Requirements

Compulsory Courses (8 course/ 17 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1.	1/1	A21U111	Islamic culture	ثقافة اسلامية	2	2	0	0	NONE
2.	1/1	A21U112	National culture	ثقافة وطنية	2	2	0	0	NONE
3.	1/1	A21U113	English Language 1	لغة انجليزية 1	2	2	0	0	NONE
4.	1/1	A21U114	Arabic Language 1	لغة عربية 1	2	2	0	0	NONE

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5.	1/1	A21U115	Computer Skills	مهارات الحاسوب	3	2	2	0	NONE
6.	1/2	A21U121	Arabic Language 2	لغة عربية 2	2	2	0	0	Arabic Language 1
7.	1/2	A21U122	English Language 2	لغة انجليزية 2	2	2	0	0	English Language 1
8.	1/2	A21U124	Arab and Israeli conflict	الصراع العربي الإسرائيلي	2	2	0	0	NONE
Total					17	16	2	0	

15.2. Faculty Requirements

Compulsory Courses (9 courses/ 22 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/1	D21F111	Genral Biology and Genetics	علم الأحياء العامة والوراثة	3	2	2	---	---
2	1/2	D21F122	General Chemistry	الكيمياء العامة	3	2	2	---	---
3	1/1	D21F113	Medical physics	الفيزياء الطبية	3	2	2	---	---
4	1/2	D21F125	emergency (First Aide)	طوارئ (إسعافات أولية)	2	1	2		
5	1/2	D21F124	Principle Health Management and Communication Skills	أسس الإدارة الصحية ومهارات الاتصال	2	2	---	---	---
6	4/2	D21F421	Research Methodology & Graduation Research	مناهج البحث العلمي ومشروع بحث التخرج	3	2	---	3	Medical statistics
7	2/1	D21F225	Medical statistics	إحصاء طبي	2	2	---	---	
8	2/1	D21F216	Quality management in Dental Technology Laboratories	ادارة الجودة في معامل الاسنان	2	2		---	Principle Health Management
9	1/2	D21F121	Law and Ethics in Dentistry	تشريعات واخلاقيات طب الأسنان	2	2			
Total					22	17	8	3	

15.3. Program Major

Compulsory Courses (42 course / 123 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
1			Dental Anatomy (1)	تشريح الأسنان (1)	3	2	2	-- -	---

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
2			Introduction and Terminology to Dentistry	مقدمة ومصطلحات طب الأسنان	2	2			
3			Dental Anatomy (2)	تشريح الأسنان (2)	3	2	2	-- -	Dental Anatomy (1)
4			Dental Materials (1)	المواد السنية (1)	3	2	2	-- -	---
5			Dental Materials (2)	المواد السنية (2)	3	2	2	-- -	Dental Materials (1)
6			Digital Dentistry And DSD And Photography (1)	تقنية طب الأسنان الرقمية (1)	3	2	2		
7			Digital Dentistry And DSD And Photography (2)	تقنية طب الأسنان الرقمية (2)	3	2	2		Digital Dentistry And DSD And Photography (1)
8			Maxillofacial prosthodontics (1)	تعويضات الوجه والفكين (1)	3	2	2		
9			Maxillofacial prosthodontics (2)	تعويضات الوجه والفكين (2)	3	2	2		Maxillofacial prosthodontics (1)
10			Removable complete Prosthodontics (1)	الاستعاضة السنية المتحركة الكاملة (1)	3	2	2	-- -	---
11			Removable complete Prosthodontics (2)	الاستعاضة السنية المتحركة الكاملة (2)	3	2	2		Removable complete Prosthodontics (1)
12			Removable complete Prosthodontics (3)	الاستعاضة السنية المتحركة الكاملة (3)	3	2	2		Removable complete Prosthodontics (2)
13			Removable complete Prosthodontics (4)	الاستعاضة السنية المتحركة الكاملة (4)	3	2	2		Removable complete Prosthodontics (3)
14			Dental implant (1)	غرسات الاسنان (1)	3	2	2	-- -	
15			Dental implant (2)	غرسات الاسنان (2)	3	2	2	-- -	Dental implant (1)
16			Fixed Prosthodontics (1)	الاستعاضة السنية الثابتة	3	2	2	-- -	---

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
				(1)					
17			Fixed Prosthodontics (2)	الاستعاضة السنية الثابتة (2)	3	2	2	-- -	Fixed Prosthodontics (1)
18			Fixed Prosthodontics (3)	الاستعاضة السنية الثابتة (3)	3	2	2	-- -	Fixed Prosthodontics (2)
19			Removable Partial Prosthodontics (1)	التعويضات المتحركة الجزئية (1)	3	2	2	-- -	---
20			Removable Partial Prosthodontics (2)	التعويضات المتحركة الجزئية (2)	3	2	2	-- -	Removable Partial Prosthodontics (1)
21			Removable Partial Prosthodontics (3)	التعويضات المتحركة الجزئية (3)	3	2	2	-- -	Removable Partial Prosthodontics (2)
22			Orthodontics (1)	تقويم الأسنان (1)	3	2	2	--	----
23			Orthodontics (2)	تقويم الأسنان (2)	3	2	2	--	Orthodontics (1)
24			Dental OSSLUSSION (1)	علم طباق الاسنان (1)	2	2	----	--	----
25			Dental OSSLUSSION (2)	علم طباق الاسنان (2)	3	2	2		Dental OSSLUSSION (1)
26			Fundamentals of dental technology	اساسيات تكنولوجيا الاسنان	3	2	2		
27			Maintenance And Safety In Dental Technology Laboratories	الصيانة والسلامة في معامل الاسنان	3	2	2		
28			Oral pathology	علم امراض الفم	3	2	2		
29			Applied Removable complete Prosthodontics (1)	الاستعاضة السنية المتحركة التطبيقية الكاملة (1)	3	1	4		Removable Prosthodontics (4)
30			Applied Removable complete Prosthodontics (2)	الاستعاضة السنية المتحركة التطبيقية الكاملة (2)	3	1	4		Applied Removable complete Prosthodontics (1)

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Prof. Mojahed Measar

21 September University of Medical and Applied Sciences *Bachelor of Dental Technology (B.D.T)*
Program Specifications

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Pre requisites, Co-requisites
31			Applied Removable partial Prosthodontics (1)	الاستعاضة السنية المتحركة التطبيقية الجزئية (1)	3	1	4		Removable Partial Prosthodontics (3)
32			Applied Removable partial Prosthodontics (2)	الاستعاضة السنية المتحركة التطبيقية الجزئية (2)	3	1	4		Applied Removable partial Prosthodontics (1)
33			CAD-CAM Dental Technology (1)	تكنولوجيا صناعة الاسنان الرقمية (1)	3	2	2		
34			CAD-CAM Dental Technology (2)	تكنولوجيا صناعة الاسنان الرقمية (2)	3	2	2		CAD-CAM Dental Technology (1)
35			Fixed Prosthodontics (4)	الاستعاضة السنية الثابتة (4)	3	2	2		Fixed Prosthodontics (3)
36			Esthetics prosthodontics	التعويضات التجميلية	3	2	2		
37			Applied Fixed Prosthodontics	الاستعاضة السنية التطبيقية الثابتة	3	1	4		Fixed Prosthodontics (4)
38			Applied Orthodontics (1)	تقويم الأسنان التطبيقي (1)	3	1	4		Orthodontics (2)
39			Applied Orthodontics (2)	تقويم الأسنان التطبيقي (2)	3	1	4		Applied Orthodontics (1)
40			Applied dental implant prosthodontics	غرسات الاسنان التطبيقية	3	1	4		Dental implant (2)
41			Infection control & Community Dental Health	السيطرة على العدوى وصحة اسنان المجتمع	2	2			
42			Oral Histology	انسجة الفم	3	2	2	--	---
Total					123	76	94		

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16. Study Plan: Total Credit Hours = 162 C.H

First Year – First Semester

No	Course Code	English	Arabic	Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1	A21U113	English Language (1)	اللغة الإنجليزية (1)	2	2	---	---	---
2	A21U114	Arabic Language (1)	اللغة العربية (1)	2	2	---	---	---
3	A21U111	Islamic Culture	الثقافة الإسلامية	2	2	---	---	---
4	A21U112	National CLTURE	الثقافة الوطنية	2	2	---	---	---
5	D21F111	General Biology and Genetics	علم الأحياء العامة والوراثة	3	2	2	---	---
6	D21S111	Introduction and Terminology to Dentistry	مقدمة ومصطلحات طب الأسنان	2	2	--	---	---
7	D21S112	Dental Anatomy (1)	تشريح الأسنان (1)	3	2	2	---	---
8	D21T113	Fundamentals of dental technology	اساسيات تكنولوجيا الاسنان	3	2	2		
9	D21F113	Medical physics	الفيزياء الطبية	3	2	2	---	---
Total				22	18	8	---	

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First Year – Second Semester								
No	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1	A21U122	English Language (2)	اللغة الإنجليزية (2)	2	2	---	---	English Language (1)
2	A21U121	Arabic Language (2)	اللغة العربية (2)	2	2	---	---	Arabic Language (1)
3	A21U115	Computer Skills	مهارات الحاسوب	3	2	2	---	---
4	A21U124	Arab-Israel Conflict	الصراع العربي الإسرائيلي	2	2	---	---	---
5	D21F121	Law and Ethics in Dentistry	تشريعات وأخلاقيات طب الأسنان	2	2	---	---	---
6	D21F122	General Chemistry	الكيمياء العامة	3	2	2	---	---
7	D21S121	Dental Anatomy (2)	تشريح الأسنان (2)	3	2	2	---	Dental Anatomy (1)
8	D21F124	Principle Health Management and Communication Skills	أسس الإدارة الصحية ومهارات الاتصال	2	2	---	---	---
9	D21F125	Emergency (First Aide)	طوارئ (إسعافات أولية)	2	1	2	---	---
Total				21	17	8	---	---

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Second Year – First Semester								
No	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T215	Dental OCCLUSION (1)	علم إطباق الاسنان (1)	2	2		---	
2	D21T214	Removable complete Prosthodontics (1)	الاستعاضة السنية المتحركة الكاملة (1)	3	2	2		
3	D21T212	Dental Materials (1)	المواد السنية (1)	3	2	2	---	---
4	D21F216	Quality management in Dental Technology Laboratories	ادارة الجودة في معامل الاسنان	2	2		---	Principle Health Management
5	D21T216	Fixed Prosthodontics (1)	الاستعاضة السنية الثابتة (1)	3	2	2		
6	D21S211	Infection control & Community Dental Health	السيطرة على العدوى وصحة اسنان المجتمع	2	2			
7	D21T213	Oral Histology	انسجة الفم	3	2	2		
8	D21F225	Medical statistics	الإحصاء الطبي	2	2			
Total				20	16	8	---	

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Second Year – Second Semester

N o	Course Code	English	Arabic	Total Credit Hours				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T221	Removable complete Prosthodontics (2)	الاستعاضة السنية المتحركة الكاملة (2)	3	2	2		Removable complete Prosthodontics (1)
2	D21T222	Removable Partial Prosthodontics (1)	الاستعاضة السنية المتحركة الجزئية (1)	3	2	2		
3	D21T223	Dental occlusion (2)	علم إطباق الأسنان (2)	3	2	2		Dental OSSLUSION (1)
4	D21T225	Oral pathology	علم امراض الفم	3	2	2		
5	D21T224	Dental Materials (2)	المواد السنية (2)	3	2	2	---	Dental Materials (1)
6	D21T226	Fixed Prosthodontics (2)	الاستعاضة السنية الثابتة (2)	3	2	2		Fixed Prosthodontics (1)
7	D21T227	Maintenance & safety in dental technology.	الصيانة والسلامة في تكنولوجيا الأسنان	3	2	2		
Total				21	14	21	---	

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Third Year – First Semester								
No	Course Code	English	Arabic	Total Credit Hour				Prerequisite
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T311	Removable complete Prosthodontics (3)	الاستعاضة السنية المتحركة الكاملة (3)	3	2	2	---	Removable complete Prosthodontics (2)
2	D21T312	Removable Partial Prosthodontics (2)	الاستعاضة السنية المتحركة الجزئية (2)	3	2	2	----	Removable Partial Prosthodontics (1)
3	D21T313	Fixed Prosthodontics (3)	الاستعاضة السنية الثابتة (3)	3	2	2	---	Fixed Prosthodontics (2)
4	D21T314	Maxillofacial prosthodontics (1)	تعويضات الوجه والفكين (1)	3	2	2	---	
5	D21T315	Orthodontics (1)	تقويم الأسنان (1)	3	2	2	----	----
6	D21T316	Digital dental technology (1)	تكنولوجيا الأسنان الرقمي (1)	3	2	2		
7	D21T317	Dental implant (1)	غرسات الاسنان (1)	3	2	2		
Total				21	14	14	0	

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Third Year – Second Semester

No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T321	Digital dental technology (2)	تكنولوجيا الأسنان الرقمي (2)	3	2	2		Digital dental technology (1)
2	D21T322	Removable Prosthodontics (4)	الاستعاضة السنية المتحركة الكاملة (4)	3	2	2	---	Removable Prosthodontics (3)
3	D21T323	Removable Partial Prosthodontics (3)	الاستعاضة السنية المتحركة الجزئية (3)	3	2	2	---	Removable Partial Prosthodontics (2)
4	D21T324	Fixed Prosthodontics (4)	الاستعاضة السنية الثابتة (4)	3	2	2	---	Fixed Prosthodontics (3)
5	D21T325	Orthodontics (2)	تقويم الأسنان (2)	3	2	2	----	Orthodontics (1)
6	D21T326	Dental implant (2)	غرسات الاسنان (2)	3	2	2		Dental implant (1)
7	D21T327	Maxillofacial prosthodontics (2)	تعويضات الوجه والفكين (2)	3	2	2	---	Maxillofacial prosthodontics (1)
Total				21	14	14	0	

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Fourth Year – First Semester								
No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T411	Applied Removable complete Prosthodontics (1)	الاستعاضة السنية المتحركة التطبيقية الكاملة (1)	3	1	4		Removable Prosthodontics (4)
2	D21T412	Applied Removable partial Prosthodontics (1)	الاستعاضة السنية المتحركة التطبيقية الجزئية (1)	3	1	4		Removable Partial Prosthodontics (3)
3	D21T413	CAD-CAM Dental Technology (1)	تكنولوجيا صناعة الأسنان الرقمية (1)	3	2	2		
4	D21T415	Applied Fixed Prosthodontics (1)	الاستعاضة السنية التطبيقية الثابتة	3	1	4		Fixed Prosthodontics (4)
5	D21T416	Esthetics prosthodontics	التعويضات التجميلية	3	2	2		
6	D21T417	Applied Orthodontics (1)	تقويم الأسنان التطبيقي (1)	3	1	4		Orthodontics (2)
Total				18	8	20		

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Fourth Year – Second Semester								
No	Course Code	English	Arabic	Total Credit Hours				Pre requisites, Co-requisites
				Total	Theory	Lab/ Practical	Clinical Training	
1	D21T421	Applied Orthodontics (2)	تقويم الأسنان التطبيقي (2)	3	1	4		Applied Orthodontics (1)
2	D21T422	Applied Removable Prosthodontics (2)	الاستعاضة السنية المتحركة التطبيقية الكاملة (2)	3	1	4		Applied Removable Prosthodontics (1)
3	D21T423	Applied removable prosthodontics (2)	الاستعاضة السنية المتحركة التطبيقية الجزئية (2)	3	1	4		Applied removable prosthodontics (1)
4	D21T424	CAD-CAM Dental Technology (2)	تكنولوجيا صناعة الاسنان الرقمية (2)	3	2	2		CAD-CAM Dental Technology (1)
5	D21F421	Research Methodology & Graduation Research	مناهج البحث العلمي ومشروع بحث التخرج	3	2	----	3	Medical Statistic
6	D21T425	Applied dental implant prosthodontics	غرسات الاسنان التطبيقية	3	1	4		Dental implant (2)
Total				18	8	18	3	

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17. Distribution of Total Credit Hours:

Level	Term	University Requirements		Faculty Requirements		Program Requirements		Training		Project		Total Cr. Hrs.		Total Cr. Hrs./ Level
		No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	
First	First	4	8	2	6	3	8					9	22	43
	Second	4	9	4	9	1	3					9	21	
Second	First			2	4	6	16					8	20	41
	Second					7	21					7	21	
Third	First					7	21					7	21	42
	Second					7	21					7	21	
Fourth	First					6	18					6	18	36
	Second					5	15			1	3	6	18	
Total:		8	17	8	19	42	123			1	3	59	162	162
Percentage:		10.5%		13.6%		75.9%				1.9%		100%		

18. Admission Requirements:

- Admissions to the program shall be made as per the admission rules set by the Ministry of Higher Education and Scientific Research as well as 21 Sep. University admission guidelines.
- General Secondary school certificate (Science Section) or any equivalent certificate with grade as specified in the admission rules made by Ministry of Higher Education and Scientific Research.
- Pass the aptitude test and personal interview if any.
- Any necessary requirement for specialization, decided by the Faculty.

19. Attendance and Graduation Requirements:

- Student attendance should not be less than 75%.
- Student will graduate after successfully passing all program requirements.
- Total credit hours for the program is 162 credit hours.
- Minimum score for any student to pass any credit hours course is 65% marks.

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20. Grading System:

From 90% to 100% of total marks	Excellent
From 80% to less than 90%	Very Good
From 70% to less than 80%	Good
From 65% to less than 70%	Pass
Less than 65%	Poor/Fail

21. Facilities Required for Running the Program:

1. Sufficient Classrooms furnished with all necessary pieces and equipment.
2. Labs as per the course's specifications.
3. Computer Labs.
4. Academic and administrative staff offices.

22. Program Assessment:

Type of the Sample who Assess the program		Instruments used	Sample
1	Final year assessment	Questionnaire	Random
2	External examiner evaluation	Questionnaire	-Graduate Club - By Email
3	Graduated student evaluation	Reports	External University
4	External evaluator	Reports	External University
5	Council for Accreditation and Quality Assurance in Yemen	Reports	Review by team work

23. Program Quality Standards:

- Continuous evaluation
- Workshops

24. Internal and external training to satisfy program standards::

- Internally :- training in well-equipped labs
- Externally :- Training in hospital controlled by logbook

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25. Program Policies:

Based on University Regulations

1.	(Class Attendance) : A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again.
2.	(Tardy) : For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he/she will be considered as absent.
3.	(Exam Attendance/Punctuality) : A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4.	(Assignments & Projects) : Assignments and projects are given as per course specification; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
5.	(Cheating) : For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6.	(Plagiarism) : Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.
7.	(Other policies) : - Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room. - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments might be given directly to students using soft or hard copy.

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